

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY
(Includes Reference to PCT International Applications) **Attorneys Docket No. 1775-1**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

CROSSLINKABLE CREPING ADHESIVE FORMULATIONS

the specification of which (check only one item below):

☐ is attached hereto.

☒ was filed as United States application
 Number 08/955,733 on 10/22/1997
 and was amended on 01/20/1998 if applicable).

☐ was filed as PCT international application
 Number _____ on _____
 and was amended under PCT Article 19 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by an amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C § 119:

COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §119
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY
(CONTINUED)**
(Includes Reference to PCT International Applications)
Attorney Docket No. 1775-1

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to the patentability as defined in §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
08/443,941	05/18/1995		X	

PCT APPLICATIONS DESIGNATING THE U.S.

PCT APPLICATION NUMBER	PCT FILING DATE	U. S. APPLICATION NUMBERS ASSIGNED (if any)		

I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with international applications directed to said invention:

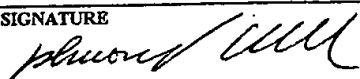
Robert S. Alexander	28,359
G. John Blumberg	24,228
Joseph M. Noto	32,163

Address all correspondence to:

Fort James Corporation
1915 Marathon Avenue
P. O. Box 899
Neenah, WI 54957-0899

Address all telephone calls to: G. John Blumberg at (920) 729-8329

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR Luu, Phuong Van	SIGNATURE 	DATE 03/16/98
RESIDENCE 2223 E. Calumet Street, Appleton, WI 54915	CITIZENSHIP France	
POST OFFICE ADDRESS 2223 E. Calumet Street, Appleton, WI 54915		

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (CONTINUED)		
(Includes Reference to PCT International Applications)		Attorney Docket No. 1775-1
FULL NAME OF SECOND JOINT INVENTOR (if any) Neculescu, Cristian M.	SIGNATURE <i>Cristian M. Neculescu</i>	DATE 3/13/98
RESIDENCE 713 Kensington Road, Neenah, WI 54956		CITIZENSHIP U. S. A.
POST OFFICE ADDRESS 713 Kensington Road, Neenah, WI 54956		
FULL NAME OF SOLE OR FIRST INVENTOR Mews, Dawn M.	SIGNATURE <i>Dawn Mews</i>	DATE 3/9/98
RESIDENCE 330 Crossbow Drive, Plover, WI 54467		CITIZENSHIP U. S. A.
POST OFFICE ADDRESS 330 Crossbow Drive, Plover, WI 54467		

002020-EE96460

APPLICANT: Phuong Van Luu, et al. GROUP: 1713

SERIAL NO.: *09/496,383* Unassigned EXAMINER: Judy M. Reddick

FILED: February 2, 2000

FOR: CROSSLINKABLE CREPING ADHESIVE FORMULATIONS

February 2, 2000

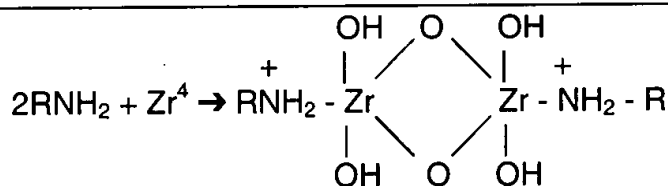
I, Phuong Van Luu, declare as follows:

1. I am one of the co-inventors of this Application and U.S. Application Serial No. 08/955,733, filed on October 22, 1997, and its parent application Serial No. 08/443,941 filed on May 18, 1995. I am thoroughly familiar with the contents of all three Applications, and the prosecution of the parent applications before the United States Patent and Trademark Office and the references cited therein.
2. I have a BS Degree in Chemistry (1970) and a MS degree in Physical Organic Chemistry (1974), both from the University of Saigon-Vietnam.
3. I have been employed by Fort James Corporation, including its predecessor James River Corporation, since 1989, first as a Senior Technician in the Department of Towel and Tissue Manufacturing Technology, and currently as a Research Scientist in the Department of Papermaking/Converting Process Development. I am co-inventor of several U.S. patents related to Yankee adhesive and Tissue softness.

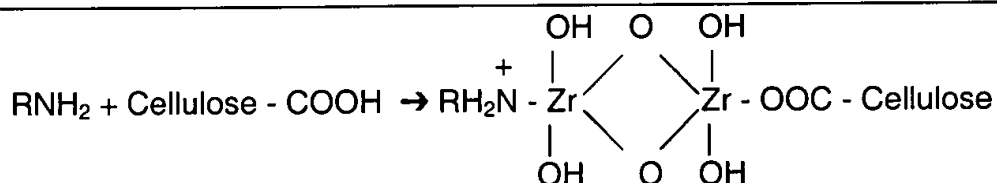
4. I am thoroughly familiar with the Office Action which issued on Serial No. 08/443,941 application on July 15, 1997, where the Examiner rejected the claimed subject matter as being obvious over the teachings of Smigo et al., U.S. Patent No. 5,281,307, in view of Miyosawa, U.S. Patent No. 4,016,179, or Hollenberg et al., U.S. Patent No. 5,246,544, and in the advisory action dated October 8, 1997, wherein the Examiner dropped Miyosawa U.S. Patent 4,016,179 as a reference.

5. To summarize, the present invention provides creping adhesives which are friendly to the environment since they do not produce any chlorine containing pollutants as by products. The creping adhesives of this invention are formed on the Yankee surface from zirconium compounds having a valence of four and organic polymers having amine moieties wherein the zirconium compounds function as crosslinking agents as is set forth in the claims.

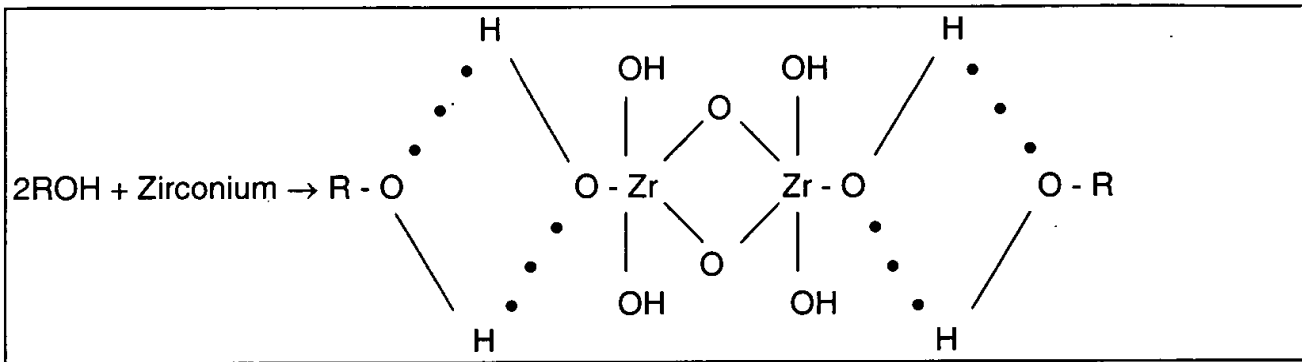
The zirconium compounds, having a valence of four, crosslink preferably with the amine functionality of the organic polymer. That reaction is set forth hereon as:



The reaction with the cellulose fiber is formulated as follows:



The zirconium crosslinking agent also reacts with alcohol moiety of the organic polymer according to the following equation:



Thus the zirconium compound crosslinking agents facilitate the crosslinking of the organic polymer to the cellulose fiber and also crosslink the organic polymer to itself through the amine or the hydroxyl moiety.

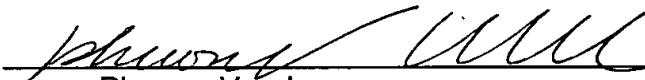
6. The remaining references in Serial No. 08/955,733 are Smigo, U.S. Patent No. 5,232,553, and Hollenberg et al., U.S. Patent 5,246,544.

In my expert opinion, none of the cited references render the claims of the instant application obvious. The Smigo reference discloses certain polyvinylamines suitable for reducing fines in the papermaking process. The Smigo reference is specifically directed to retaining fines from recycle of waste papers. The Hollenberg U.S. Patent 5,246,544 is directed to adhesives prepared prior to the application of the components to the Yankee surface. The Hollenberg et al. reference does not disclose polymers having amine moieties. The adhesives claimed herein are prepared on the Yankee surface. If they were prepared as set forth in the process disclosed by Hollenberg et al. reference of record, the whole composition would gel and could not be used as a creping adhesive. Thus, in my expert opinion, the aforementioned references of record do not render the claims 1 through 5 obvious within the meaning of 35 U.S.C. 103.

7. The Hollenberg et al. U.S. Patent 5,246,544 is further unable to support a 35 U.S.C. 103 rejection since nitrogen containing softeners were not utilized in the Hollenberg

process. Thus, in my expert opinion, in addition to the reasons set forth in Paragraph 6, U.S. Patents 5,232,553 and 5,246,544 do not render the claims covering such softeners obvious.

8. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature 
Phuong Van Luu

Date 02/02/00 Country of Citizenship U.S.

Residence 2223 E. Calumet Street, Appleton WI 54915

and Post Office Address same

J:\PATENT\PATENT\DECL&POA\1775-1A Declaration

002020-EE96460